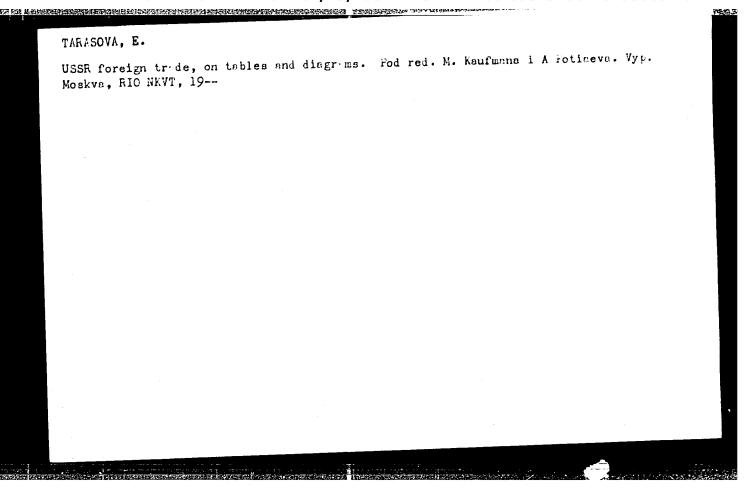KOLOVERTNOV, G.D.; BORESKOV, G.K.; DZIS'KO, V.A.; POPOV, B.I.; TARASOVA, D.V.; BELUGINA, G.G.

Iron-molybdenum oxide catalyst of methanol oxidation to formaldehyde. Part 1: Specific activity as a function of the catalyst composition. Kin. i kat. 6 no. 6:1052-1056 N-D '65
(MIRA 19:1)

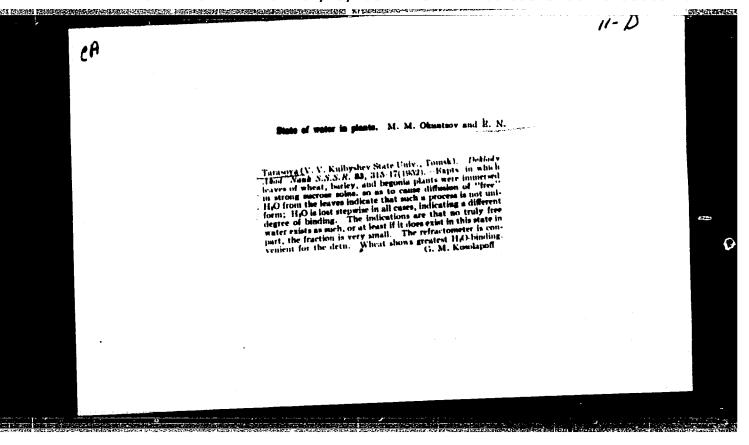1. Institut kataliza Sibirskogo otdeleniya AN SSSR. Submitted January 25, 1965.

L 13290-66   EWT(m)/EWP(j)/T/ ETC(m)   RM/DS/WW
ACC NR: AP6000323   SOURCE CODE: UR/0286/65/000/021/0011/0011

INVENTOR: Dzis'ko, V. A.; Borisova, M. S.; Krasilenko, N. P.; Tarasova, D. V.

ORG: none

TITLE: A method for producing silica gel. Class 12, No. 175925 [announced by the
Institute of Catalysis, SO, AN, SSSR (Institut kataliza AN SO SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 11

TOPIC TAGS: silica gel, ~~chemicals~~ CHEMICAL PRECIPITATION, AQUEOUS
SOLUTION, GEL

ABSTRACT: This Author's Certificate introduces a method for producing silica gel by
precipitating hydrogel from aqueous solutions of sodium silicate and an ammonium
salt of a strong acid with intense mixing followed by filtering and washing of the
resultant hydrogel. A granulated silica gel with high strength is produced by
treating the hydrogel in a masticator or on rollers.

SUB CODE: 07/ SUBM DATE: 21Jun64/ ORIG REF: 000/ OTH REF: 000

        jw

Card 1/1   UDC: 66.097.3 661.183.7

TARASOVA, E.

USSR foreign tr·de, on tables and diagr·ms. Pod red. M. Kaufmana i A Fotineva. Vyp.
Moskva, RIO NKVT, 19--

TARASOVA, E. F.

Excerpta Medica Sec 17 Public Health Vol. 1/7 July 55

2609. TARASOVA E. F. * Antituberculosis work in country districts
    of the Moscow region PROBL. TUBERK. 1954, 1 (9-14)(Russian text)
Further development of agriculture in USSR leads to increased interest of Health

2609 Cont

Organizations in the prophylaxis of various diseases and especially of tb. The or-
ganization of the antituberculosis service in agricultural districts is explained and
emphasis is laid upon the education of specialized workers. The decrease of the
number of patients during the last 4 years who were diagnosed by the anti-tb
groups to 40% is the result of good work of the anti-tb service. Fibro-caseous forms
among these tb patients have been also lowered. Vaccination of newborn and re-
vaccination of older children are organized on a wide basis.   Hubáček - Prague

11-D

CA

State of water in plants. M. M. Okuntsov and E. N. Tarasova (V. V. Kuibyshev State Univ., Tomsk). *Doklady Akad. Nauk S.S.S.R.* 83, 315-17(1952). — Rapts in which leaves of wheat, barley, and begonia plants were immersed in strong sucrose solns. so as to cause diffusion of "free" H$_2$O from the leaves indicate that such a process is not uniform; H$_2$O is lost stepwise in all cases, indicating a different degree of binding. The indications are that no truly free water exists as such, or at least if it does exist in this state in part, the fraction is very small. The refractometer is convenient for the detn. Wheat shows greatest H$_2$O binding.

G. M. Kosolapoff

SHASTKEVICH, Yu.G.; TARASOVA, E.O.

Some results of the comparision of laboratory determination of the
elastic properties of rocks with seismic logging data. Mat.po
geol.i pol.iskop.IAk.ASSR no.5:110-123 '61.   (MIRA 15:7)
    (Rocks--Elastic properties) (Seismic prospecting)

OCHAKOVSKIY, V.; TARASOVA, G.

Simplified processing of poultry on a conveyor. Mias ind SSSR
34 no. 6:38   '63.   (MIRA 17:5)

1. Krasnodarskiy nauchno-issledovatel'skiy institut ptitse-
   pererabatyvayushchey promyshlennosti.

OCHAKOVSKIY, V.; TARASOVA, G.

Laboratory of Meat Technology of the Krasnodarsk Scientific Research
Institute of the Food Industry. Mias.ind. SSSR 33 [i.e.34] no.2:
16-17 '63.   (MIRA 16:4)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promy-
shlennosti.   (Krasnodarsk—Food research)

ADZHEMYAN, E., inzh.; TARASOVA, G., inzh.

Automation of assembly lines for low-power electric motors.
Prom.Arm. 4 no.8:37-40 Ag '61.   (MIRA 14:8)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
                              (Assembly-line methods)

TUROVA-POLYAK, M. B.; TARASOVA, G. A.

"Isomerization of Polymethylenic Hydrocarbons under the Influence of Aluminum Chloride" Part V. "Isomerization of n.-amylcyclopentane" Zhur. Obshch. Khim., 10, No. 2, 1940. Laboratory of Organic Chemistry imeni Academician N. D. Zelinskiy, Moscow State University. Received 11 July 1939.

● Report U-1526, 24 Oct 51.

TUROVA-POLYAK, M. B.; TARASOVA, G. A.

"Isomerization of Polymethylenic Hydrocarbons
under the Influence of Aluminum Chloride"
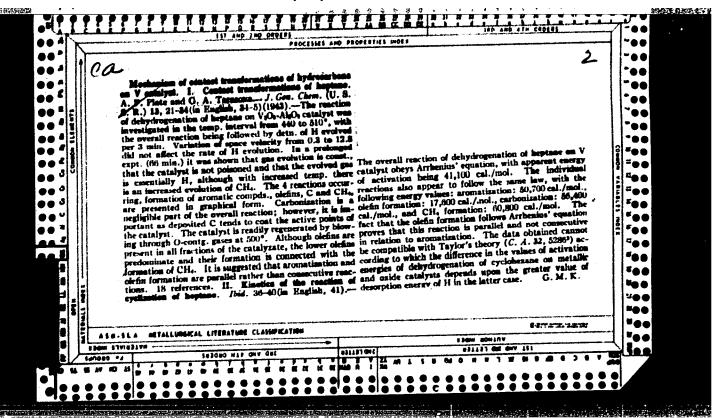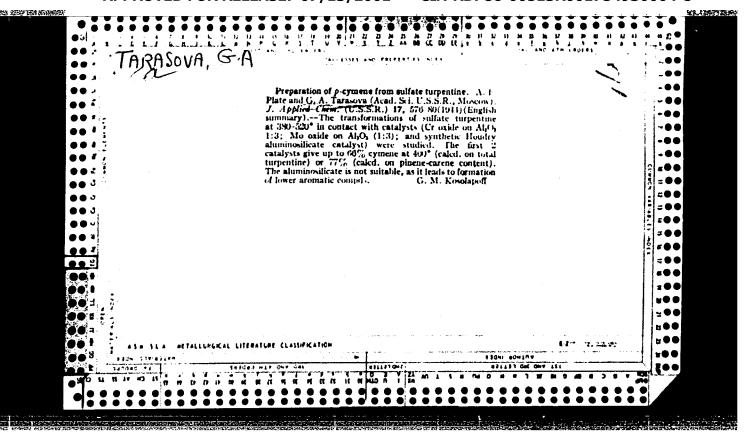Part V. "Isomerization of n-amylcyclopentane"

Laboratory of Organic Chemistry imeni Academician
N. D. Zelinskiy, Moscow State University.

Report U-1526, 24 Oct. 51

2

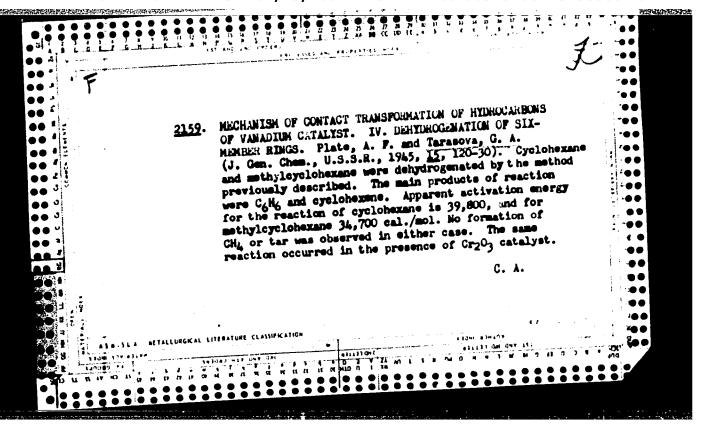Mechanism of contact transformations of hydrocarbons on V catalyst. I. Contact transformations of heptane. A. V. Plate and O. A. Tarasova. J. Gen. Chem. (U. S. S. R.) 13, 21-34(in English, 34-5)(1943).—The reaction of dehydrogenation of heptane on V_2O_5-Al_2O_3 catalyst was investigated in the temp. interval from 440 to 510°, with the overall reaction being followed by detn. of H evolved per 3 min. Variation of space velocity from 0.3 to 12.8 did not affect the rate of H evolution. In a prolonged expt. (64 min.) it was shown that gas evolution is const., that the catalyst is not poisoned and that the evolved gas is essentially H, although with increased temp. there is an increased evolution of CH_4. The 4 reactions occurring, formation of aromatic compds., olefins, C and CH_4, are presented in graphical form. Carbonization is a negligible part of the overall reaction; however, it is important as deposited C tends to coat the active points of the catalyst. The catalyst is readily regenerated by blowing through O-contg. gases at 500°. Although olefins are present in all fractions of the catalyzate, the lower olefins predominate and their formation is connected with the formation of CH_4. It is suggested that aromatization and olefin formation are parallel rather than consecutive reactions. 18 references. II. Kinetics of the reaction of cyclization of heptane. Ibid. 36-40(in English, 41).—

The overall reaction of dehydrogenation of heptane on V catalyst obeys Arrhenius' equation, with apparent energy of activation being 41,100 cal./mol. The individual reactions also appear to follow the same law, with the following energy values: aromatization: 50,700 cal./mol., olefin formation: 17,600 cal./mol., carbonization: 56,400 cal./mol., and CH_4 formation: 60,800 cal./mol. The fact that the olefin formation follows Arrhenius' equation proves that this reaction is parallel and not consecutive in relation to aromatization. The data obtained cannot be compatible with Taylor's theory (C. A. 32, 5296⁵) according to which the difference in the values of activation energies of dehydrogenation of cyclohexane on metallic and oxide catalysts depends upon the greater value of desorption energy of H in the latter case.   G. M. K.

ABS-SLA   METALLURGICAL LITERATURE CLASSIFICATION

TARASOVA, G·A

Preparation of p-cymene from sulfate turpentine. A. I. Plate and G. A. Tarasova (Acad. Sci. U.S.S.R., Moscow). *J. Applied Chem.* (U.S.S.R.) 17, 576-80(1944)(English summary).--The transformations of sulfate turpentine at 390-520° in contact with catalysts (Cr oxide on Al_2O_3 1:3; Mo oxide on Al_2O_3 (1:3); and synthetic Houdry aluminosilicate catalyst) were studied. The first 2 catalysts give up to 60% cymene at 400° (calcd. on total turpentine) or 77% (calcd. on pinene-carene content). The aluminosilicate is not suitable, as it leads to formation of lower aromatic compds.   G. M. Kosolapoff

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

2159. **MECHANISM OF CONTACT TRANSFORMATION OF HYDROCARBONS OF VANADIUM CATALYST. IV. DEHYDROGENATION OF SIX-MEMBER RINGS.** Plate, A. F. and Tarasova, G. A. (J. Gen. Chem., U.S.S.R., 1945, 15, 120-30). Cyclohexane and methylcyclohexane were dehydrogenated by the method previously described. The main products of reaction were C_6H_6 and cyclohexane. Apparent activation energy for the reaction of cyclohexane is 39,800, and for methylcyclohexane 34,700 cal./mol. No formation of CH_4 or tar was observed in either case. The same reaction occurred in the presence of Cr_2O_3 catalyst.

C. A.

METALLURGICAL LITERATURE CLASSIFICATION

TARASOVA, G. A.

"A Complex Method of Detailed Investigation of the Individual Composition of Gasolines"
(Kompleksnyy Metod Detalizirovannogo Issledovaniya Individual'nogo Sostava Benzinov),
G. S. Landsberg, B. A. Kazanskiy, P. A. Bazhulin, M. I. Batuyev, A. L. Liberman,
A. S. Plate, and G. A. Tarasova, edited by V. S. Fedorov, Gostoptekhizdat, Moscow/
Leningrad, 1949, 68 pages, 3 rubles.

Subject method is based on spectral analysis

SO: Uspekhi Khimii, Vol 18, #6, 1949; Vol 19, #1, 1950 (W-10083)

TARASOVA, G. A.

"Mechanism of Heptane Aromatization in the Presence of Vanadium Catalyst." Thesis
for degree of Cand. Chemical Sci. Sub 27 Apr 50, Inst of Organiz Chemistry, Acad
Sci USSR

■ Summary 71, 4 Sep 52. Dissertations Presented for Degrees in Science and Engineer-
ing in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

Mechanism of catalytic reactions of hydrocarbons on a vanadium catalyst. VI. Comparison of the behavior of 1-heptene and 3-heptene. A. F. Plate and G. A. Tarasova (Acad. Sci. U.S.S.R., Moscow). Zhur. Obshchei Khim. (J. Gen. Chem.) 20, 1092-1101 (pages incorrect in original)(1950).—Expts. were made in a flow system on 20 ml. of a V_2O_5 catalyst on Al_2O_3 (1:10), length of column 220 mm. in a tube of 11 mm. diam. Under the conditions of the expts., PhMe is not hydrogenated. Dehydrocyclization of 1-heptene (I) and of 3-heptene (II), measured by the evolution of gas, proceeds at a const. rate at a given temp. in the range 400-480°. Examples of data (temp., rate of flow in ml. (STP)/3 min., rate of evolution of gas in ml. (STP)/3 min., % unsatd. compds. reacted, % aromatics in catalyzate) are: I, 400°, 0.75, 2.87, 5.0, 2.2; 451°, 0.62, 13.65, 14.0, 6.2; 480°, 0.51, 44.85, 27.1, 15.3; II, 400°, 0.62, 3.80, 11.3, — (not detd.); 409°, 0.55, 30.24, 27.1, — (not detd.). Plots of the log of the rate of evolution of gas against $1/T$ are straight lines, giving for the apparent activation energies E of the total dehydrocyclization 39.5 and 40.0 kcal./mole for I and II,

resp., i.e. practically the same value, and equal to the previously established $E = 41.1$ for C_6H_{12}. On the other hand, for the reaction of formation of PhMe, E for I is 33.5, as against 50.7 kcal./mole for the same reaction with C_6H_{12}. I produces more PhMe than II. At 480°, with 21.6 g. hydrocarbon passed in each case in 3 hrs., the yield was the same (88.9%) in each case, but, with I, the product had a higher refractive index; with I, the gas was C_6H_{14} 4.2, H_2 84.7, C_6H_{12}... 11.2%, with II, 5.8, 76.3, 18.8%; I gave 1.2% coke (relative to the mass passed), II 0.84%. By the gas analysis, II undergoes splitting of the C—C bond to a higher degree than I; on the other hand, I is more prone to polymerization. By fractionation of the catalyzates, II gave a smaller amt. of PhMe than I, and the amt. of unreacted olefin was higher by about 10%. In both cases, the middle heptene-heptane fractions consist (by Raman spectrum analysis) of a mixt. of I, II, and 2-heptene; consequently, along with aromatization, there occurs in both cases some amt. of isomerization with a shift of the double bond. But for this isomerization, the difference of the degrees of aromatization would be more pronounced. The greater tendency of II to decompn. to lower hydrocarbons causes faster poisoning of the catalyst.   N. Thon

TARASOVA, G. A.

USSR/Chemistry - Liquid Fuels, Aromatization May 52

"The Mechanism of Catalytic Transformation of Hydrocarbons Over a Vanadium Catalyst, VII. Comparison of the Behavior of Binary Mixtures of Heptane, Heptene, and Toluene," A. F. Plate, G. A. Tarasova, Inst of Org Chem, Acad Sci USSR

Zhur Obshch Khim, Vol 22, No 5, 765-771

Aromatization of heptane-heptene mixt at 480° over V_2O_5 catalyst on Al_2O_3 was studied. Direct relation was found bet quantity of toluene formed and heptene content of original mixt. With a pentane content in the mixt below 5%, amt of heptene in final product

263T25

increases, at 10% content it remains const, and above 10% the amt of unsaturated compds in final product is less than in the starting mixt. Mixt of heptane and 2-methylbutene-2 was aromatized at 480°. Heptane forms toluene and heptene in quantity proportional to its concn in the mixt. Isopentene under these conditions is hydrogenated to isopentane. Effect of addn of 10-90% toluene on aromatization of heptane at 480° was studied. Quantity of newly formed toluene is directly proportional to heptane content of mixt; the yield of toluene calcd on the basis of heptane is const. Effect of addn of toluene (from 11.8 to 95%) on the aromatization of heptene at 480° was studied. Yield of toluene calcd on the basis of the original heptane increases as the amcn of heptene in the mixt decreases. Heptane and heptene are aromatized at different centers of activity of the catalyst.

263T25

TARASOVA, G. A.

"Dispersiomatic Methods for Determination of Aromatic Hydrocarbons in Mixtures with Other Types of Hydrocarbons. Analysis of Mixtures Which Do Not Contain Unsaturated Compounds," B. A. Kazanskiy, M. I. Rozengart, O. D. Sterligov, G. A. Tarasova, Inst Org Chem, Acad Sci USSR

Comparison of 4 dispersiometric methods for the detn of aromatic hydrocarbons in mixts with paraffins and naphthenes has been made. The method selected as best has the advantage that detn of sp wt and corrections for the analysis of mixts contg benzene and toluene are not required. Detn of dispersions of various mixts (n-hexane-benzene, n-heptane-toluene) has been made. Found that relative dispersion values for two-component mixts calcd acc to the formula given, have the property of additivity and may therefore be used for detn of aromatic hydrocarbons in mixts.

271T9

TARASOVA, G. A.

Determination of individual hydrocarbon composition of gasolines by the combined method. II. Two gasolines from petroleum of Kazanbulak origin. B. A. Kazanskiy, A. F. Plate, Ye. A. Mikhaylova, A. L. Liberman, M. I. Batuyev, T. F. Bulanova, and G. A. Tarasova (N.D. Zelinskiy Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow.) Izvest. Akad. Nauk. S.S.S.R., Otdel. Khim. Nauk 1954, 266-77; cf. C. A. 45, 7342a. -- Two specimens of gasoline from Kazanbulak area were exsmd. by the combined optical-distn. method. In fractions b. under 150° over 70 hydrocarbons were identified, thus accounting for 40-55% of the total compn. It is shown that despite the close origin of the specimens geographically, considerable differences in compn. are found. III. Surakhan Gasolines. B. A. Kazanskiy, G. S. Landsberg, A. F. Plate, A. L. Liberman, Ye. A. Mikhaylova, P. A. Bazhulin, M. I. Batuyev, S. A. Ukholin, T. F. Bulanova, and G. A. Tarasova. Ibid. 278-91.----Two specimens of Surakhan gasolines were examd. by the combined method. In both some 47 hydrocarbons were identified, accounting for 77-84% of the total compn. Distn. curves and distn. data are cited.
                                                        G. M. Kosolapoff

KAZANSKIY, B.A.; LANDSBERG, G.S.; PLATE, A.F.; LIBERMAN, A.L.; MIKHAYLO-
VA, Ye.A.; BAZHULIN, P.A.; BATUYEV, M.I.; UKHOLIN, S.A.; BULANOVA, T.F.;
TARASOVA, G.A.

Composite method for the determination of individual hydrocar-
bons in gasolines. Part 3. The Surakhany gasolines. Izv.AN SSSR.
Otd.khim.nauk no.2:278-291 Mr-Ap '54.   (MLRA 7:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo, Fizicheskiy
institut im. P.N.Lebedeva Akademii nauk SSSR.
(Hydrocarbons) (Surakhany--Petroleum) (Petroleum--Surakhany)

TARASOVA, G. A.

USSR/ Chemistry   Fuels

Card   : 1/1

Authors   : Kazanskiy, B. A., Landsberg, G. S., Plate, A. F., Bazhulin, P. A.,
                   Liberman, A. L., Suschinskiy, N. M., Tarasova, G. A., Ukholin, S. A.,
                   Voron'ko, S. V.

Title   : Combined method for the determination of the individual hydrocarbon
                   composition of gasolines. Part 4.- Gasoline from the Tuymazinsk
                   petroleum.

Periodical   : Izv. AN SSSR, Otd. Khim. Nauk., 3, 456 - 469, May - June 1954

Abstract   : The results obtained from the study of the individual hydrocarbon
                   composition of gasoline with end point of 150°, derived from low-
                   sulfur Tuymazinsk petroleum (Devonian horizon), are described. The
                   quantitative, individual hydrocarbon composition of Tuymazinsk
                   gasoline and the general losses are presented in percentage by
                   weight values. The structure of paraffin-base gasoline derived
                   from Tuymazinsk petroleum and the aromatic contents of other
                   hydrocarbons are discussed. Toluene and m-xylene were found to
                   be predominant among aromatic hydrocarbons. Four USSR references.
                   Tables, graphs.

Institution   : Acad. of Sc. USSR, The P. N. Lebedev Physics Institute

Submitted   : July 20, 1953

TARASOVA, G. A.

U S S R .

Determination of individual hydrocarbons in gasolines by the combined method. V. Gasoline from Emba crude oil. B. A. Kazanskiy, G. S. Landsberg, A. F. Plate, I. A. Bazhulin, A. L. Liberman, Ye. A. Mikhaylova, M. M. Sushchinskiy, G. A. Tarasova, S. A. Ukholin, and S. V. Voron'ko. (N. D. Zelinskiy Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow). Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk 1954, 865-77; cf. C.A. 48, 14170h. --Analysis of a gasoline from Emba crude oil by a combination of distn., chromatography, and dehydrogenation-hydrogenation reactions resulted in establishing the structure of 81.1% of the hydrocarbons present. The gasoline is of naphthenic type, and the paraffins are predominantly branched. The following compds. were identified: 2,2-dimethylbutane, 2,3-dimethylbutane, 2-methylpentane, 3-methypentane, hexane, methylcyclopentane, 2,2-dimethylpentane, 2,4-dimethylpentane, cyclohexane, 3,3-dimethylpentane, 1,1-dimethylcyclopentanes, 2,3-dimethylpentane, cis- and trans- 1,3-dimethylcyclopentanes, trans-1,3-dimethylcyclopentanes, trans-1,2-dimethylcyclopentane, methyl- and ethylcyclohexanes, 1,2,4-trimethylcyclopentane, 2,2- and 2,4-dimethylhexanes, 1,2,3-trimethylcyclpentane, 3- and 4-methylheptane, 1,1-dimethylcyclopentane, 1,1,3-trimethylcyclohexane, 3- and 4-methyloctanes, Etl'h and o-, m-, and p-xylenes were also identified, m-xylene going the predominant aromatic hydrocarbon.

G. M. Kosolapoff

KAZANSKIY, B.A.; ROZENGART, M.I.; STERLIGOV, O.D.; TARASOVA, G.A.

Concerning the article of B.V.Ioffe: "On the additiveness of refractive dispersion and the comparative estimate of dispersimetric methods for the determination of aromatic hydrocarbons." Reviewed by B.A.Kazanskii, M.I.Rozengart, O.D.Sterligov, G.A.Tarasova. Zhur.anal.khim. 9 no.2:116-119 Mr-Ap '54.   (MLRA 7:3)
    (Dispersimetry) (Aromatic compounds) (Ioffe, B.V.)

TARASOVA, G.A.

U S S R .

Additivity of refractional dispersion and comparative evaluation of dispersimetric methods for determination of aromatic hydrocarbons. B. A. Kazanskii, M. I. Rozengart, O. D. Sterligov, and G. A. Tarasova. J. Anal. Chem. U.S.S.R. 9, 131–9 (1954)(Engl. translation).—See C.A. 48, 6910b.

II. L. II.

Tarasova, G.A.

Synthesis of 2-cyclopentylocrane and 5,5-dimethyl-
undecane.] G. A. Tarasova, G. S. Talts, and A. F. Plate.
(N. D. Zelinskii Inst. Org. Chem., Moscow.) Zhur.
Obshchei Khim. 26, Nauk Knan Nauk 1956, 1267 g.
To EtONa from 23 g. Na in 465 ml. abs. EtOH was added at
0-14° 178 g. CdHxHc (b₁₀ 173.0°, n₀²⁰ 1.4150, d₄²⁰ 0.8140)
and 100 g. cyclopentadiene; after 1 hr. the mixt. was
quenched in H₂O and the org. layer after washing and
steam distn. gave 44.3% 6-methyl-6-hexylfulvene, b₁₀
94-6°, which was immediately charged into an autoclave
and hydrogenated over Raney Ni at 120 atm. at room
temp. in EtOH yielding 70% 2-cyclopentyloctane, b₁₀ 120.5°,
b₁₀ 230-6.5°, n₀²⁰ 1.4476, d₄²⁰ 0.8118. C₆H₁₃MgBr and Me₂-
CO gave 87.5% dimethylhexylcarbinol, b₁₀ 50°-51°, n₀²⁰
1.4281, d₄²⁰ 0.8239, which with HCl gave 66-7% 2-chloro-2-
methyloctane, b₁₀ 66.4°-7.1°, n₀²⁰ 1.42⁺⁺, d₄²⁰ 0.8296. This,
16.5 g., was added to BuMgBr from 24.5 g. BuBr in
Et₂O, which was pretreated with 10 g. HgCl₂ yielding after
the usual hydrolysis 20% 5,5-dimethylundecane, b₁₀...
n₀²⁰ 1.4272, d₄²⁰ 0.7⁺⁺.

G. M. Kosolapoff

TARASOVA, G. A.

USSR/Organic Chemistry. Synthetic Organic Chemistry.   G-2

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11227.

Author : Plate, A.F. and Tarasova, G.A.
Inst   : Academy of Sciences USSR _ N.D.Zelinskiy Inst. Org. Chem., Moscow
Title : Synthesis of 1,2,3,4,7,7-hexachloro-(2,2,1)-dicyclo-
         2,5-heptadiene by the Condensation of Hexachlorocyclo-
         pentadiene with Acetylene

Orig Pub: Izvest Akad Nauk SSSR, Otdel Khim Nauk, No 7, 873-875
         (1957)

Abstract: The condensation of hexachlorocyclopentadiene (I) with
         C_2H_2 under pressure (8-11 hrs at 120-145°, initial C_2H_2
         pressure 15 atm) gives 1,2,3,4,7,7-hexachloro-(2,2,1)-
         dicyclo-2,5-heptadiene (II), the starting product in
         the synthesis of the insecticides isodrine and endrine
         /TN: spelling uncertain; appear to be of Belgian manufac-

Card   : 1/2
                        6

USSR/Organic Chemistry. Synthetic Organic Chemistry.   G-2

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11227.

ture$\overline{/}$; the yield of II is 16-46%, bp 125-126°/10 mm,
n^{20}_D 1.5550, d^{20}_4 1.6606. The yield of I is increased
when the temperature is raised from 120 to 145°. The
previously prepared (J. Hyman et al, Belgian patent
498176, 15, 01, 51) solid product obtained by the con-
densation of I with C_2H_2 does not appear to be II.

Card   : 2/2

LANDSBERG, Grigoriy Samuilovich, akademik [deceased]; KAZANSKIY, Boris
    Aleksandrovich, akademik; BAZHULIN, P.A., doktor fiziko-matemat.
    nauk; BULANOVA, T.F.; LIBERMAN, A.L., MIKHAYLOVA, Ye.A.; PLATE,
    A.F.; STERIN, Kh.Ue.; SUSHCHINSKIY, M.M.; TARASOVA, G.A.; UKHOLIN,
    S.A.; BRUSOV, I.I., red.izd-va; KASHINA, P.S., tekhn.red.

    [Determination of the individual hydrocarbon composition of
    straight-run gasolines by the combined method] Opredelenie
    individual'nogo uglevodorodnogo sostava benzinov priamoi gonki
    kombinirovannym metodom. Moskva, Izd-vo Akad.nauk SSSR, 1959.
    362 p.   (MIRA 12:8)
                    (Gasoline)

8154?
S/190/60/00*/00*/*/...
BO20/BO66

AUTHORS: Kolesnikov, G. S., Smirnova, A. P., Sobolev, L. A.,
              Slonimskiy, G. L., Pryanishnikova, M. A.,
              Fedorova, E. A.

TITLE: Polymers and Copolymers with Carbon Chains. XII. Copolymers
              on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and
              1,2,3,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

PERIODICAL: Vysokomolekulyarnye soyedineniya, 1960, Vol. 2, No. 3,
              pp. 45-455

TEXT: The authors attempted the polymerization of dissolved bicyclo-
heptadiene and hexachloro bicyclohentadiene in the presence of BF3 and
the polymerization of hexachloro bicyclohentadiene in the presence of
benzoyl peroxide, tert-butyl peroxide, aioisobutyric acid dinitrile,
tri-n-propyl boron, and TiCl4. Hexachloro bicyclohentadiene does not
form polymers (Ref.-4). Bicyclohentadiene (Ref. 5) forms polymers in a 15%
yield. The copolymerization of bicyclohentadiene with hexachloro

Card 1/4

Polymers and Copolymers With Carbon Chains.   S/190/60/00*/00*/*/...
XII. Copolymers on the Basis of Bicyclo   BO20/BO66
(2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-
-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

bicyclohentadiene and other monomers (styrene, vinyl acetate, methyl
methacrylate) was studied to clarify the influence of the copolymer
composition upon their solubility and thermodynamic properties. The
authors synthesized copolymers from equimolecular quantities of
dissolved bicyclohentadiene and hexachloro bicyclohentadiene in the
presence of BF3 (2 mole%) and in bulk in the presence of benzoyl
peroxide and tri-n-propyl boron (0.5 mole%). The results obtained are
given in Table 1. The curves of the thermodynamic properties of the
copolymers of bicyclohentadiene and hexachloro bicyclohentadiene are
presented in Fig. 1. According to an X-ray structural analysis, the
resultant copolymers are amorphous. The properties of copolymers from
equimolecular quantities of bicyclohentadiene and styrene are also
given (Table 2). The results of the copolymerization of equimolecular
quantities of bicyclohentadiene with methyl methacrylate in bulk in
the presence of aioisobutyric acid dinitrile, benzoyl peroxide, and
tert-butyl peroxide showed that the activity of methyl methacrylate

Card 2/4

Polymers and Copolymers With Carbon Chains.   S/190/60/00*/00*/*/...
XII. Copolymers on the Basis of Bicyclo   BO20/BO66
(2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-
-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

is much higher than that of bicyclohentadiene. The copolymers obtained
contain a total of about 1 per cent of bicyclohentadiene links, which is
not sufficient for an increase of the thermal stability of polymethyl
methacrylate. The curves of the thermodynamic properties of the
copolymers of bicyclohentadiene and styrene, as well as of bicyclo-
hentadiene and vinyl acetate are given in Fig. 2. The latter copolymer
was synthesized for the first time. The copolymers of bicyclohentadiene
and hexachloro bicyclohentadiene with a molar ratio of 70.5 : 29.5 are
well soluble in dichloro ethane and toluene, and are highly elastic at
elevated temperatures (250 - 350°). The copolymer of bicyclohentadiene
and vinyl acetate is also highly elastic in a wide temperature range
(60 - 350°). There are 2 figures, 2 tables, and 6 references: 3 Soviet,
2 US, and 1 British.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy (Institute of
             Elementi-organic Compounds). Institut organicheskoy khimii
             im. N. D. Zelinskogo AN SSSR (Institute of Organic

Card 3/4

Polymers and Copolymers With Carbon Chains.   S/190/60/00*/00*/*/...
XII. Copolymers on the Basis of Bicyclo   BO2C/BO66
(2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-
-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

Chemistry) iment N. D. Zelinskiy AS USSR

SUBMITTED: December 30, 1959

Tarasova, G.A.

Tarasova, G.A. (handwritten, vertical)

S/062-60-1-15/27

AUTHORS: Aleksanyan, V. T., Sterin, Kh. Ye., Liberman, A. L.,
            Lukina, M. Yu., Tayts, G. S., Tarasova, G. A., Terent'eva,
            Ye. M.

TITLE: Investigation of Hydrocarbons by Optical Method. XII.
            Raman Spectra of Some Hydrocarbons of Various Series

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdelenlye khimicheskikh
            nauk, 1960, Nr 1, pp 94-99 (USSR)

ABSTRACT: The Raman spectra of the following hydrocarbons were
            studied: n-dodecane; 5,5-dimethylundecane; 1,1,2-tri-
            methylcyclopropane; sec-butylcyclopentane, 2-cyclopentyl-
            octane, n-propylcyclohexane, 1-methyl-2-ethylcyclo-
            hexi-ene. Combination of the chemical and spectro-
            scopic data confirm that 1,2-dialkylcyclohexan-1-ol
            on dehydration yields 1,2-dialkylcyclohexenes with
            double bond predominantly in position (I).

Card 1/3

Card 2/3

There are 10 references: 6 Soviet, 1 Soviet, 6 U.S., 1 German.
The 3 most recent U.S. references are: Washer,
W. A., J. Am. Chem. Soc., ... (1948); Kenaka, M. R.,
Anal. Chem., 19, 700 (1947); Saunders, F., K., Graener,
P. L., J. Am. Chem. Soc., 70, ... (1948); Pochr,
R. G., Beckman, M. R., Indistr. and Engng. Chem., ...,
1948 (1948); Naiso, R. D., Greenlee, K. W., Derfer,
J. M., Boord, C. E., J. Am. Chem. Soc., 74, 257 (1952).

ASSOCIATION: N. D. Zelinskiy Institute of Organic Chemistry of the
              Academy of Sciences of the USSR (Institut organicheskoy
              khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: May 30, 1958

Card 3/3

VOL'FSON, L.G.; MEL'NIKOV, N.N.; PLATE, A.F.; TARASOVA, G.A.; PERSON,
        A.I.; PLETNEVA, L.S.

Preparation of isodrin and endrin. [Trudy] NIUIF no.171:
52-60 '61.   (MIRA 15:7)
                        (Isodrin) (Endrin)

TARASOVA, G.A.; PLATE, A.F.; MEL'NIKOV, N.N.; VOL'FSON, L.G.; TISHCHENKO, A.I.

Condensation of polychlorocyclopentadiences with acetylene.
Neftekhimiia 1 no.1:65-69 Ja-F '61.   (MIRA 15:2)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo.
              (Condensation products (Chemistry))

L 36472-65   EPF(c)/EWT(m)   Pr-4   RM

ACCESSION NR: AP5010002   UR/0204/64/004/004/0561/0566

AUTHOR: Tarasova, G. A.; Kazanskiy, B. A.

TITLE: Kinetics of benzene formation in the dehydrocyclization of n-hexane on an
aluminum-chromium-potassium catalyst

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 561-566

TOPIC TAGS: catalysis, chemical kinetics, benzene, cyclization, aluminum, potassium,
chromium , hexane

Abstract: The kinetics of benzene formation in the dehydrocyclization of
n-hexane on an aluminum-chromium-potassium catalyst was investigated.
Stability of the catalyst and reproducibility of the experiments was
achieved by preliminary reduction of the regenerated catalyst with dry
hydrogen. In the aromatization of n-hexane on an aluminum-chromium-potassium
catalyst, reduced with dry hydrogen, twice as much benzene was formed as
the same catalyst, reduced with hydrogen not subjected to drying. The reaction
of bezene formation at temperatures from 460 to 520° and rates of delivery
of hexane from 0.4 to 1.6 grams per hour per gram of catalyst, at grain
sizes of 0.25-0.50 and 2.0-3.0 mm, proceeded in the kinetic region. The
dependence of the yields of benzene on the temperature and rate of delivery

Card 1/2

L. 36472-65

ACCESSION NR: AP5010002

in the dehydrocyclization of n-hexane was determined. For the region of a zero-order reaction, an activation energy of benzene formation equal to 35.4 kcal/mole was found. Orig. art. has 2 graphs and 3 tables.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR (Institute of Organic Chemistry, AN SSSR)

SUBMITTED: 06Sep63   ENCL: 00   SUB CODE: GC, OC

NO REF SOV: 008   OTHER: 600   JPRS

Card 2/2

/5

TARASOVA, O. A.

PHASE I BOOK EXPLOITATION   SOV/6100

Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy
    tekhniki.

Trudy (Academy of Sciences of the USSR, Institute of Precision
    Mechanics and Computer Technology. Transactions) no. 2.
    Moscow, 1961. 447 p. 1000 copies printed. Contributors not
    mentioned.

PURPOSE: This collection of articles is intended for scientific and
    technical personnel concerned with machine translation and computer
    technology.

COVERAGE: This collection of articles of the Institute of Precision
    Mechanics and Computer Technology, Academy of Sciences USSR, is
    the second in a series concerned with machine translation and
    mathematical linguistics. The collection contains reports written
    by members of the Machine-Translation Group of the Institute as
    well as reports by researchers from other organizations. The
    articles deal with various problems in machine translation, such
    as the possibility of an intermediate language, relationships
    between various languages, systems of recording, structure of

Card 1/6

15

SOV/6100

Academy of Sciences (Cont.)

algorithms, methods of independent analysis of a number of languages
(Chinese, German, English, Russian, Rumanian, Swedish, Tartar, etc.),
independent synthesis of the Russian language, some problems of binary
Japanese-Russian and Chinese-Russian translation, theoretical trans-
lation problems, and problems associated with automatic recognition
of speech elements and the introduction of written texts. No person-
alities are mentioned. There are 11 references: 2 Soviet and 9 English.

TABLE OF CONTENTS: 3

Card 2/6

Academy of Sciences (Cont.)   SOV/6100

Card 4/6

S/044/63/000/002/050/050
A060/A126

AUTHOR: Tarasova, G.A.

TITLE: Determination of syntactic relationships for sentence groups on the basis of formal analysis (for English material)

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 96, abstract 2V542 (Tr. In-ta tochnoy mekhan. i vychisl. tekhn. AN SSSR, 1961, no. 2, 240 - 249)

TEXT: The paper describes rules for the automatic determination of the word controlling a sentence group. The analysis is based upon data as to the order of sequence of words in the sentence and as to their participation in grammatical classes. It is indicated that the rules described make it possible to establish the dependence of a sentence group from: 1) a verb ("to fall within limits"); 2) a noun ("contribution to a paper"); 3) adjective ("popular with the reader"); 4) adverb ("independently of the solution") in cases of both strong and weak control, of both the direct following of the sentence group after the controlling word and in the case when some classes of words are present

Card 1/2

Determination of syntactic relationships for ....

S/044/63/000/002/050/050
A060/A126

between the sentence group and the control word. It is indicated that the formal
method is insufficient for the purposes indicated, as sometimes a semantic analy-
sis of the words connected by the sentence connective is required. This situa-
tion is illustrated by phrases such as "The interest: ... has grown considerably
during the last decades for many reasons", where the sentence group refers to
the nearest preceding verb, and according to the formal rules constructed it is
erroneously related to the directly preceding noun.

T.N. Moloshnaya

[Abstracter's note: Complete translation]

Card 2/2

TARACON., G. I.

Mbr., Hosp. Clinical Surgery, Ist Moscow Order Lenin Med. Inst., -cl/4./-.
"Hernia of Linea Alba and Its Relation to Abdominal Complications," Sov. Med., No. 7,
1949.

LUKOMSKAYA, I.S.; TARANOVA, G.I.

    Trehalase in animal and human tissues. Vop. med. khim. 9
no.2:214-216 Mr-Ap '63.   (MIRA 17:8)

    1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,
Moskva.

LUKOMSKAYA, I.S.; TARASOVA, G.I.

Synthesis of kojibiose (α-1-$\rightarrow$2-diglucoside) under the action
of an enzymic preparation from the liver. Dokl.AN SSSR 148
no.4:941-942 F '63.   (MIRA 16:4)

1. Institut biologicheskoy i meditsinskoy khimi AMN SSSR.
Predstavleno akademikom A.I.Oparinym.
                         (Kojibiose)

LUKOMSKAYA, I.S., TARASOVA, G.1.

Trehalose in vertebrates and man. Biokhimiia 30 no.1:95-99
Ja-F '65.   (MIRA 18:6)

1. Laboratoriya klinicheskoy khimii i biokhimii uglevodnogo
obmena Instituta biologicheskoy i meditsinskoy khimii AN SSSR,
Moskva.

TARASOVA, G.I.

Geological processes forming valley slopes of the Kama
and Belaya Rivers in the region of the future Lower Kama
Reservoir. Vest. Mosk. un. Ser. biol., pochv., geol.,
geog. 14 no.3:171-178 '59.   (MIRA 13:6)

1. Kafedra gruntovedeniya i inshenernoy geologii Moskovskogo
universiteta.
            (Kama Valley--Physical geography)
            (Belaya Valley (Bashkiria))--Physcial geography)

L 35534-65   EWT(m)/EWP(j)   Pc-4   RM
ACCESSION NR: AP5008237   S/0286/65/000/005/0130/0130

AUTHORS: Popova, Z. V.; Armyaninov, A. P.; Tikhova, N. V.; Tarasova, G. K.   24

TITLE: A method for stabilizing polyvinyl chloride. Class 39, No. 151820   15   B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 130

TOPIC TAGS: polymer, polyvinyl chloride, litharge, stearin, hydroquinone,
stabilization

ABSTRACT: This Author Certificate presents a method for stabilizing polyvinyl
chloride by introducing a stabilizer based on lead litharge into the polymer. To
heighten the stabilization effect, stearin with hydroquinone is added to the
stabilizer.

ASSOCIATION: none

SUBMITTED: 26Feb62   ENCL: 00   SUB CODE: OC

NO REF SOV: 000   OTHER: 000

Card 1/1

GAYEVOY, Ye.V.; OCHAKOVSKIY, V.S.; TARASOVA, G.T.

[Industrial processing of rabbits] Promyshlennaia pe-
rerabotka krolikov. Moskva, TSentr. in-t nauchno-tekhn.
informatsii pishchevoi promyshl., 1964. 53 p.
                                        (MIRA 17:12)

ACC NR: AT7003861 *(A)*   SOURCE CODE: UR/3241/65/002/000/0123/0131

AUTHOR: Gayevoy, Ye. V. ; Ochakovskiy, V. S. ; Tarasova, G. T. ; Izmest'yeva, P. Ya.

ORG: none

TITLE: The Meat Industry continuous flow line for acid-salt preservation of rabbit pelts by dry brine

SOURCE: Krasnodar. Nauchno-issledovatel'skiy institut pishchevoy promyshlennosti. Trudy, v. 2, 1965, 123-131

TOPIC TAGS: processed animal product, food technology, food product machinery

ABSTRACT: Together with specialists of the food industry, the authors have developed a method for processing rabbit pelts with acid-salts on a production flow line. An acid and salt compound is used which permits a dry treatment of the pelts. The composition and application of the compound are described in detail. Illustrations in the original article show a DMK-1 centrifugal hammer-type crusher—

Card 1/2

ACC NR: AT7003861

used for mixing the compound, and also other units of machinery of the production
flow line. The authors conclude that this mechanized pelt presevation method
should be widely used in all rabbit processing enterprises as it will improve the
quality of the pelts, raise the production volume and improve the working condi-
tions of those presently engaged in manual processing of rabbit pelts. The authors
estimate that the introduction of the new production line in Kuban plants alone will
save about 45000 rouble per year. Orig. art. has: 5 figures.   [GC]

SUB CODE: 06, 13/SUBM DATE: none/ORIG REF: 011/

Card 2/2

TSVETKOV, V.N.; MITIN, Yu.V.; SHTENNIKOVA, I.N.; GLUSHENKOVA, V.R.; TARASOVA, G.V.; SKAZKA, V.S.; NIKITIN, N.A.

Sedimentation, diffusion, and viscosity of poly-γ-benzyl L-glutamate in solutions. Vysokom. soed. 7 no.6:1098-1103 Je '65.   (MIRA 18:9)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

BERDNIKOVA, K.G.; TARASOVA, G.V.; SKAZKA, V.S.; NIKITIN, N.A.; DYUZHEV, G.V.

Hydrodynamic properties of some polymethacrylates. Vysokom. seed.
6 no.11:2057-2062 N '64   (MIRA 18:2)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo uni-
versiteta.

BUKMAN, M.; FILIPPOV, Yu.; TARASOVA, I., inzh.

Rapid assembly of large-panel buildings. Zhil. stroi. no.12:
13-15 '62.   (MIRA 16:1)

1. Glavnyy inzh. SU Montazhzhilstroy tresta Altaysvinetsstroy
(for Bukman). 2. Nachal'nik eksperimental'no-konstruktorskogo
otdela SU Montazhzhilstroy tresta Altaysvinetsstroy(for Filippov).

(Ust'-Kamenogorsk--Apartment houses)
(Precast concrete construction)

TARASOVA, I., inzh.

Conference on large-panel construction in earthquake districts.
Zhil. stroi. no.2:32 '63.   (MIRA 16:3)
                    (Earthquakes and building—Congresses)

TARASOV, I., Inzh.

Reserver for large-panel housing construction in construction.
Zhil. stroi. no.9:32 '64.

5 (3)

AUTHORS: Garber, Yu. N., Tarasova I. A.   SOV/153-2-2-12/31

TITLE: Phase-rule Equilibria in the System β-methyl Naphthalene
                Acenaphthene (Fazovyye ravnovesiya v sisteme β-metilnaftalin-
                -atsenaften)

ABSTRACT: The authors already gave information (Refs 1,2) on the phase-
                -rule equilibria in systems of several substances of various
                fractions of coal tar. Isolation conditions of several im-
                portant substances were given, as well as a new method of de-
                fining the average elasticity of vapors of compound mixtures
                by means of the curves of the phase-rule equilibria (Ref 3).
                The results made it possible to explain the isolation condi-
                tions of methyl naphthalene and acenaphthene through the frac-
                tion 220 - 285° (Ref 4) of which they are the main components.
                In recent times acenaphthene gained importance as raw material
                for producing synthetic substances. The dependence of the melt-
                ing temperature upon the composition, was found for the two
                products mentioned in the title. 8 mixtures were produced, con-

Card 1/4

Phase-rule Equilibria in the System β-methyl   SOV/153-2-2-12/31
Naphthalene Acenaphthene

taining β-methyl naphthalene of 18-95% by weight. The results
are shown in table 1 and figure 1. Figure 1 shows that the
mentioned mixture is of eutectic character. The curve of the
phase-rule equilibria was found by means of the apparatus
MIKhM (Refs 1,5). For this purpose 10 mixtures were produced
with a β-methyl naphthalene content of 16.9 - 90.0% by weight.
For the results see table 2. The mentioned curve for ideal
mixtures, one of which is the system studied here, has the
shape of an equilateral hyperbola in an isothermal process, ex-
pressed by the equation $\frac{Y}{1 - Y} = K \frac{X}{1 - X}$, with Y being the

content of the low-boiling compound in the steam phase, in mol
portions; X - the same in the liquid phase; K - a concentra-

tion coefficient ($= \frac{P_a}{P_b}$ i.e. the relation of steam tensions of

pure, low-boiling and high-boiling components at a certain tem-
perature). The curve found differs considerably from the men-
tioned hyperbola, since the examination usually does not take
Card 2/4   place at a constant temperature (isothermal), but under a cer-

Phase-rule Equilibria in the System β-methyl   SOV/153-2-2-12/31
Naphthalene Acenaphthene

tain pressure (isobar). Under these conditions, a special boil-
ing temperature corresponds to each composition and a special
concentration coefficient corresponds to that temperature. This
however changes little. Thus the isobar curve differs but
slightly from the isothermal curve. In order to derive the curve
of the phase-rule equilibrium of the isobar process, one has to
know the average concentration coefficient. It was computed ac-
cording to the method of the smallest square and amounted to
1.75. The curve mentioned last, was computed from the equation
of the hyperbola with 1.75 set in (Fig 2). From this curve the
number of theoretical trays of laboratory rectification columns
can be determined (Refs 6,7). The mixture mentioned in the ti-
tle may be useful for defining the number of half-boiling and
high-boiling fractions of coal tar. There are 2 figures, 2 ta-
bles, and 7 Soviet references.

Card 3/4

Phase-rule Equilibria in the System β-methyl   SOV/153-2-2-12/31
Naphthalene Acenaphthene

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut; Kafedra khimi-
               cheskoy tekhnologii topliva (Dnepropetrovsk Metallurgical
               Institute; Chair of Chemical Fuel Technology)

SUBMITTED: January 24, 1958

Card 4/4

KRIGER, N.I.; KRUTOV, V.I.; SOROCHAN, Ye.A.; TARASOVA, I.V.

Conference on problems of building on settling soil.
Osn., fund. i mekh. grun. 4 no.3:29-31 '62.   (MIRA 15:7)
        (Soil mechanics--Congresses)

√

KRUTOV, V.I.; TARASOVA, I.V.

Method of measuring "initial pressure" in settling soils. Osn. fund.i
mekh.grun. 6 no.1:7-9 '64.   (MIRA 17:2)

124-58-6-6424

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 19 (USSR)

AUTHOR: Tarasova, I. Z.

TITLE: Solving Boundary Problems Involving Compression Shocks in
Plane Rotational Supersonic Gas Flow (Resheniye krayevykh
zadach so skachkami uplotneniya pri ploskom vikhrevom dviz-
henii sverkhzvukovogo potoka)

PERIODICAL: Uch. zap. LGU, 1957, Nr 217, pp 195-224

ABSTRACT: Proceeding from the plane-vortical-gas-flow equation for the
stream function ψ derived by L. I. Sedov [Ploskiye zadachi gidro-
dinamiki i aerodinamiki (Plane Problems in Hydrodynamics and
Aerodynamics). Gostekhizdat, 1950] , the author solves the
boundary problems for supersonic motions of an ideal gas in-
volving compression shocks. As shown by I. Z. Kalishevich (Dokl.
AN SSSR, 1954, Vol 99, Nr 1), if the assumption is made that
entropy can be represented in the form

$$\vartheta(\psi) = \bar{\vartheta} + \bar{\vartheta}(\psi),$$

Card 1/2

Solving Boundary Problems Involving Compression Shocks (cont.)

wherein $\overline{\vartheta}$ is a constant quantity and the square of the ratio $\vartheta(\psi)/\overline{\vartheta}$ can be neglected as compared with unity, then the Sedov equation reduces to a linear equation and can be integrated in a general form. On the basis of the Kalishevich solution the following problems are solved: the uniform and non-uniform impinging flow past a solid wall with an attached compression shock; the boundary problem for the region bounded by a strong separation boundary and two characteristics, in uniform and nonuniform impinging flow. The solution to the problems amounts to the numerical integration of systems of rather cumbersome differential equations.

    1. Supersonic flow--Theory   2. Gases--Applications M. P. Mikhaylova
    3. Compression shock 4. Mathematics--Applications

Card 2/2

OLIFIN, L.K.; TARASOVA, K.A.

    A double-level cophased shortwave antenna array with an
aperiodic reflector. Radiotekhnika 17 no.9:7-14 S '62.

                                              (MIRA 15:9)

    1. Deystvitel'nyye chleny Nauchno-tekhnicheskogo obshchestva
radiotekhniki i elektrosvyazi imeni Popova.
            (Antennas (Electronics)) (Microwaves)

KAPATSINSKAYA, Antonina Aleksandrovna, prof.; TARASOVA, K.A., red.; NEM-
    CHENKO, L.I., tekhn. red.

[Sheep farming in Gorkiy Province] Ovtsevodstvo Gor'kovskoi ob-
lasti. Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1960. 174 p.
                                            (MIRA 14:7)
            (Gorkiy Province—Sheep)

CHEREMIN, Ivan Ksenofontovich. Prinimali uchastiye: KODANEV, I.M., prof.;
LYUBISHEV, V.G., zootekhnik; TARASOVA, K.A., red.; SERGEYEVA, M.I.,
tekhn. red.

[Seven-year plan of the collective farm] Semiletnii plan kolkhoza.
Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1961. 77 p. (MIRA 15:1)

1. Predsedatel' kolkhoza "Niva" Rabotkinskogo rayona (for
Cheremin).
(Collective farms)

DOZHDIKOV, Boris Vladimirovich; SEREBRYAKOV, Kirill Borisovich;
     TARASOVA, K.A., red.; YUNISOVA, M.I., tekhn. red.

     [Hydraulic systems of tractors and SK-3 combines] Gidro-
     sistemy traktorov i kombaina SK-3. Gor'kii, Gor'kovskoe
     knizhnoe izd-vo, 1961. 101 p.   (MIRA 15:4)
        (Tractors)   (Combines (Agricultural machinery))
     (Hydraulic engineering--Equipment and supplies)

MIKHAYLOVSKIY, Yevgeniy Vasil'yevich; SAFONOV, Georgiy Anatol'yevich;
    SEREBRYAKOV, Kirill Borisovich; TARASOVA, K.A., red.;
    YUNISOVA, M.I., tekhn. red.

[Motor-vehicle and tractor engines] Avtotraktornye dvigateli.
Gor'kii, Gor'kovskoe knizhnoe izd-vo, 1963.   302 p.
                                         (MIRA 17:4)

57292

S/169/62/000/004/077/103
D218/D302

3, 1800

AUTHORS: Kolomeyeta, Ye.V., Sergeyeva, G.A., and Tarasova, K.F.

TITLE: A study of cosmic-ray intensity, the earth's magnetic field and auroras during the magnetic storm of March 25, 1958

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1962, 14, abstract 4G76 (V sb. Kosmicheskiye luchi, no. 4, M., AN SSSR, 1961, 35-48)

TEXT: Data obtained by the world station network (72 instruments) were used to analyze variations in the intensity of the hard and neutron components of cosmic rays during the geomagnetic storm of March 25, 1958. Moreover, use was made of data on auroras and geomagnetic disturbances at various latitudes. It is shown that the reduction in the cosmic-ray intensity during the Forbush effect was simultaneous at all stations. The latitude dependence of the amplitude of the Forbush effect is obtained and is used to determine the differential energy spectrum of variations in primary cosmic rays, which is of the form $\delta D(\varepsilon)/D(\varepsilon) \sim \varepsilon^{-1}$. A longitude dependence of

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A study of cosmic-ray intensity, ...

S/169/62/000/004/077/103
D218/D302

the Forbush amplitude was not detected. A small increase in the cosmic-ray intensity, in the brightness of auroras and in the H-component of the geomagnetic field is observed 2.5 – 3 hours prior to the Forbush decrease. [Abstractor's note: Complete translation].

Card 2/2

TORUBAROV, V.A.; ANDREYEV, V.S.; TARASOVA, K.S.

   Introduction of the high-frequency "Titr-1" titrimeter. Biul. tekh-
   ekon.inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.6:
   13-14 Je '65.   (MIRA 18:7)

EYDINOVA, Mariya Borisovna; PRAVDINA-VINARSKAYA, Yelena Nikolayevna;
    TARASOVA, K.V., red.; TARASOVA, V.V., tekhn.red.

[Cerebral palsy in children and ways of overcoming it] Detskie
tserebral'nye paralichi i puti ikh preodoleniia. Moskva, Izd-vo
Akad.pedagog.nauk RSFSR, 1959. 1959. 215 p.
        (CEREBRAL PALSIED CHILDREN)   (MIRA 13:7)

TEPLOV, B.M., otv.red.; TARASOVA, K.V., red.; NOVOSELOVA, V.V., tekhn.red.

[Typological peculiarities of the higher nervous system in man]
Tipologicheskie osobennosti vysshei nervnoi deiatel'nosti chelo-
veka. Otvet.red.B.M.Teplov. Moskva, Vol.2. 1959. 228 p.
                                        (MIRA 13:6)

1.Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut
psikhologii. 2. Deystvitel'nyy chlen Akademii pedagogicheskikh
nauk RSFSR (for Teplov).
        (TEMPERAMENT)   (NERVOUS SYSTEM)

TSEYTLIN, A.G., red.; TARASOVA, K.V., red.; NOVOSHLOVA, V.V., tekhn.red.

[Problems in the prevention of postural disorders in children of preschool and school age] Voprosy profilaktiki narushenii osanki u detei doshkol'nogo i shkol'nogo vozrasta. Pod red. A.G.TSeitlina. Moskva, 1960. 142 p.   (MIRA 13:12)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut fizicheskogo vospitaniya i shkol'noy gigiyeny.
                  (Posture)

MARKOSYAN, A.A., red.; TARASOVA, K.V., red.; TARASOVA, V.V., tekhn.red.

[Transactions of the Fourth Conference on Age-related Morphology, Physiology, and Biochemistry] Trudy chetvertoi nauchnoi konferentsii po vozrastnoi morfologii, fiziologii i biokhimii. Pod red.A.A.Markosiaha. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1960. 367 p.   (MIRA 14:1)

1. Nauchnaya konferentsiya po vozrastnoy morfologii, fiziologii i biokhimii. 4th, 1959. 2. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR; Institut fizicheskogo vospitaniya i shkol'noy gigiyeny Akademii pedagogicheskikh nauk RSFSR (for Markosyan).
              (PHYSIOLOGY--CONGRESSES)

MARKOSYAN, A.A., red.; TARASOVA, K.V., red.; NOVOSELOVA, V.V.,
tekhn. red.

[Functional capacity] Funktsional'nye vozmozhnosti iunykh
velosepedistov. Pod red. A.A.Markosiana. Moskva, 1960.
70 p.   (MIRA 14:5)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut
fizicheskogo vospitaniya i shkol'noy gigiyeny. 2. Chlen-
korrespondent Akademii pedagogicheskikh nauk RSFSR (for
Markosyan)
                        (Cyclists)

MARKOSYAN, A.A., red.; TARASOVA, K.V., red.; GOVORKOVA, A.F., red.;
    NOVOSELOVA, V.V., tekhn.red.

[Transactions of the Fifth Scientific Conference on Age-Related
Morphology, Physiology, and Biochemistry] Trudy Piatoi nauchnoi
konferentsii po vozrastnoi morfologii, fiziologii i biokhimii.
Pod red. A.A.Markosiana. Moskva, Izd-vo Akad.nauk RSFSR, 1962.
557 p.   (MIRA 16:3)

1. Nauchnaya konferentsiya po vozrastnoy morfologii, fiziologii
i biokhimii. 5th, 1961. 2. Chlen-korrespondent Akademii
pedagogicheskikh nauk RSFSR (for Markosyan).
    (ANATOMY, HUMAN--CONGRESSES)   (PHYSIOLOGY--CONGRESSES)
            (ONTOGENY--CONGRESSES)

YASTREBOVA, Alla Vasil'yevna; GOVORKOVA, A.F., red.; TARASOVA, K.V.,
        red.; NOVOSELOVA, V.V., tekhn. red.

        [Characteristics of the spoken and written language of stam-
        mering pupils; the primary grades of the public school]Osoben-
        nosti ustnoi i pis'mennoi rechi u zaikaiushchikhsia uchashchikh-
        sia; mladshie klassy massovoi shkoly. Moskva, Izd-vo Akad. pe-
        dagog. nauk RSFSR, 1962. 54 p.   (MIRA 16:1)
                        (STAMMERING)

SAMBIKIN, Lev Boleslavovich; TARASOVA, K.V., red.; YEGOROVA,V.F.,
tekhn. red.

[Physical education in a school for the blind] Fizicheskoe
vospitanie v shkole slepykh. Moskva, Prosveshchenie, 1964.
149 p.   (MIRA 17:4)

LEVENBERG, I.; POKROVSKIY, V.; TARASOVA, L.; YUTLANDOV, I.

The (p, pn) and (p, n) reactions on Sc^{45} induced by high-energy protons. Dubna, Ob"edinennyi in-t iadernykh issle-dovanii, 1961. 8 p.

(No subject heading)

LEVENBERG, I.; POKROVSKIY, V.; DE-HOU, Khen; TARASOVA, L.;
        YUTLANDOV, I.

        The (p, pn) ar' (p,n) reactions on Sc^{45} induced by high-
        energy protors, Dubna, Ob"edinennyi in-t iadernykh is-
        sledovanii, 1963. 15 p.

ACCESSION NR: AP4031174   S/0056/64/046/004/1475/1476

AUTHOR: Jen, Te-hou; Levenberg, I.; Pokrovskiy, V.; Tarasova, L.;
Yutlandov, I.

TITLE: The reactions (p, pn) and (p, n) on Sc-45 under the influ-
ence of high-energy protons.

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1475-1476

TOPIC TAGS: (p, pn) reaction, (p, n) reaction, scandium 45, high
energy protons, scandium isomer, reaction cross section, nuclear
structure, np scattering cross section, differential cross section

ABSTRACT: This is a continuation of earlier experiments (ZhETF v.
43, 1619, 1963) on radiochemical studies of simple nuclear reactions
with bombarding proton energies close to several hundred MeV. The
results are listed in the table, which shows for comparison similar
results on calcium. The new data confirm the assumption made in the
first study that the direct knock-on mechanism begins to predominate
in the (p, pn) reaction already at energies close to several hundred
MeV. Calculation of the ratio of the cross sections for isomer pro-

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duction in this reaction offers further proof of this hypothesis.
It is concluded that only neutrons from the uppermost completely or
partially filled level participate in the (p, n) reaction, which
comprises quasielastic scattering of the proton on the neutron of
thenucleus, which carries away most of the energy. Orig. art. has:
1 figure and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy
(Joint Institute of Nuclear Research)

SUBMITTED: 10Jul63   DATE ACQ: 07May64   ENCL: 02

SUB CODE: PH   NO REF SOV: 001   OTHER: 003

Card 2/#2

DROBYSHEV, V.N.; REZUKHINA, T.N.; TARASOVA, L.A. (Moskva)

Thermodynamic properties of alloys in the system Co-MO. Zhur.
fiz. khim. 39 no. 1:141-146 Ja '65   (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
Submitted June 1,1964.

SINEGUB-LAVRENKO, A.A., kandidat tekhnicheskikh nauk; DOROVATOVSKIY, V.S.;
TARASOVA, L.A.; STASHKOV, G.A.

Method of manufacturing calico printing rollers without pigment.
Tekst. prom. 16 no.3:56-57 Mr '56.   (MLRA 9:6)
                    (Calico printing)

SINEGUB-LAVRENKO, Anna Antonovna; ANISIMOV, Viktor Ivanovich; TARASOVA,
    Lyudmila Aleksandrovna; MIKLASHEVSKIY, S.P., retsenzent; SHUB,L.S.,
    spets. red.; VERBITSKAYA, Ye.M., red.; SHVETSOV, S.V., tekhn. red.

[Photomechanical methods for the production screens for textile
printing] Fotomekhanicheskie sposoby izgotovleniia form dlia pe-
chati na tkaniakh. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR,
1961. 142 p.   (MIRA 15:1)
    (Textile printing)   (Photomechanical processes)

L 34980-65   EWT(m)/EPF(n)-2/EWP(t)/EWP(b)   Pu-4' IJP(c)   JD/JW/JG

AUTHOR: Drobyshev, V. N.; Rezukhina, T. N.; Tarasova, L. A.

TITLE: Thermodynamic properties of cobalt-molybdenum alloys

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 1, 1965, 141-146

TOPIC TAGS: cobalt-molybdenum alloys, thermodynamics, electromotive force, thermo-dynamic function

ABSTRACT: The thermodynamic functions of Co-Mo alloys were determined in the 900-1200°C range by measuring the emf of the galvanic cell:
Pt|MoO$_2$,Mo|solid electrolyte (ThO$_2$-La$_2$O$_3$)|Co-Mo(alloy),MoO$_2$|Pt. The values were used to calculate the thermodynamic properties of solid solutions of molybdenum in cobalt and of the three intermediate phases θ, K and ε in which the mole fraction of molybdenum is 0.18, 0.245 and 0.45 respectively. The free energy of formation of these alloys from the elements per gram atom of alloy are as follows:
θ phase ΔG° = -490-0.2T, cal
K phase ΔG° = -1490+0.46T, cal
ε phase ΔG°+-1350+0.1T, cal
The obtained thermodynamic data confirm the phase diagram for Co-Mo obtained by

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L 34980-65
ACCESSION NR: AP5004355

Quinn and Hume-Rothery (J. Less-Common Metals, 5, 314, 1963). The equation for
the reaction Mo + O_2 === MoO_2 which holds over the 1260-1360°C temperature range
is $\Delta G°$ =-137.580 + 40.48T cal where $\Delta H°_{298}$ is -140.4 K cal. This value is in
good agreement with the published data on calorimetric measurements. Orig. art.
has: 9 formulas, 2 tables and 4 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow
State University)

SUBMITTED: 01Jun64   ENCL: 001   SUB CODE: TD, MM

OTHER: 008

NO REF SOV: 004

Card2/2

TARASOVA, L.B.

BELEN'KAYA, Ye.I., inzh.; DUYEV, A.M., inzh.; TARASOVA, L.B., inzh.

Using vibration mills in polishing manufactured goods. Mashinostroitel'
no.1:27 Ja '58.   (MIRA 11:1)
                           (Grinding and polishing)

GOL'DFARB, Ya.L.; TARASOVA, L.D.

New method of synthesizing α, β- disubstituted furans.
Dokl. AN SSSR 142 no.2:358-361 Ja '62.   (MIRA 15:2)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
Predstavleno akademikom A.A.Balandinym.
                    (Furan)

GOL'DFARB, Ya.L.; TARASOVA, L.D.

Bromination products of furfurole. Izv. AN SSSR. Ser. khim.
no.6:1079-1080 '65.   (MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

GOL'DFARB, Yu.L.; TARASOVA, L.D.

Synthesis of 2,4-disubstituted furans. Dokl. AN SSSR 163 no.6:1393-1396 Ag '65.   (MIRA 18:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Submitted January 29, 1965.

TARASOVA, L.D.; GOL'DFARB, Ya.L.

      Syntheses based on 4,5-ditmrofurfurole. Izv. AN SSSR. Ser.
khim. no.11:2013-2019 '65.   (MIRA 18:11)

      1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GOLOSOVA, N.A.; LEMENEV, L.M.; LITINSKIY, A.M.; LOKSHINA, R.D.; SEMENOVA, T.D.; TARASOVA, L.G.; TOL'TSMAN, T.I.,dots.; STETSYUK, A.M., red.; SENCHILO, K.K., tekhn. red.

[Manual on the organization of pharmaceutical service] Uchebnik organizatsii farmatsevticheskogo dela. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 419 p. (DRUGSTORES)

(MIRA 14:8)

MELENT'YEVA, G.A.; TARAS'YN, I.E.

Results of the practical work of fifth-year students during the
academic year 1962-1963. Apt. delo 13 no.2:45-51 Mr-Ap '64.
(MIRA 17:12)

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina medi-
tsinskogo instituta im. I.M. Sechenova.

MAKSIMOVA, T.V.; OL'KHOVOY, I.V.; TARASOVA, L.G.

Supplying the population with drugs. Apt. delo 13 no.2:54-57
Mr-Ap '64.   (MIRA 17:12)

1. Farmatsevticheskiy fakul'tet i Moskovskogo ordena Lenina medi-
tsinskogo instituta im. I.M. Sechenova.

TARASOVA, L.G., TOL'KMAN, T.I.

Training practice in the organization of pharmacies. Apt. delo
13 no.4:57-60 Jl-Ag '64.

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina
meditsinskogo instituta imeni Sechenova.

KULIKOV, V.A., kand.tekhn.nauk; TARASOVA, L.I., inzh.

Surface smoothness of peeled veneer. Der.prom. 11 no.10:12-
13 O '62.   (MIRA 15:9)
                              (Veneers and veneering)

IVANOVA, Taisiya Nikolayevna; STANKEVICH, Ye.K., mladshiy na-
uchnyy sotr.; TARASOVA, L.I., laborant; BARSUKOVA, I.F.,
laborant; PETROVA, M.I., tekhnik-kartograf; BERSENEVA, R.M.,
star. tekhnik-kartograf; PAFFENGOL'TS, K.N., nauchn. red.;
SHMAKOVA, T.M., tekhn. red.

[Characteristics of the development of Early Paleozoic
igneous activity in various structures of Tuva] Zakono-
mernosti razvitiia rannepaleozoiskogo magmatizma v raz-
lichnykh strukturakh Tuvy. Moskva, Gosgeoltekhizdat,
1963. 165 p.   (MIRA 17:1)

1. Otdel petrografii Vsesoyuznogo nauchno-issledovatel'-
skogo geologicheskogo instituta (for all except
Paffengol'ts, Shmakova).
              (Tuva A.S.S.R.—Rocks, Igneous)